

Notice of Allowability

Application No.

10/709,163

Examiner

MUHAMMAD N. EDUN

Applicant(s)

CHIANG, CHUN-YING

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to ____.
2. ☒ The allowed claim(s) is/are 1-16.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date ____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

Prior Art Citation

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Watanabe et al. (2002/0181356), Ueda et al. (2004/0174785) and Ishibashi (2001/0022763), all disclose an optical disk recording and reproducing apparatus having the ability of managing defective sector or block of the optical disk disk.

Reasons For Allowance

2. The following is an Examiner's Statement of Reasons for Allowance:

Re claims 1-7

The prior art of record alone or in combination does not teach or suggest the method for recording a plurality of data sets onto an optical storage medium by utilizing a temporary storage device in an optical storage system having the combination of steps with their recited process, and taken the claims as a whole along with:

re-arranging a sequence of the plurality of data sets
corresponding to the plurality of defective data blocks in
the temporary storage device according to a sorting

process; and

recording the plurality of re-arranged data sets in the temporary storage device into the plurality of spare data blocks of the optical storage medium.

Re claims 8-13

The prior art of record alone or in combination does not teach or suggest the method for recording a plurality of data sets onto an optical storage medium in an optical storage system to reduce seeking process having the combination of steps with their recited process, and taken the claims as a whole along with:

storing a predetermined number of data sets

corresponding to a predetermined number of defective data

blocks in the main storing section into the temporary

storage device, wherein the predetermined number is

determined according to a memory capacity of the main storing section;

re-arranging a sequence of the predetermined number

of data sets in the temporary storage device according to a sorting process;

recording the predetermined number of re-arranged data sets in the temporary storage device into the spare storing second;

and recording the predetermined number of re-arranged data sets in the spare storing section into a predetermined number of corresponding spare data blocks of the optical storage medium.

Re Claims 14-16


The prior art of record alone in combination does not teach or suggest the method for recording a plurality of data sets into a plurality of adjacent spare data blocks on an optical storage medium during a seek process, having the combination of steps with their recited process, and taken the claims a whole in combination with arranging the plurality of data sets according to a sequence of the plurality of corresponding spare data block number so that the plurality of spare data block numbers of the plurality of arranged data sets become consecutive spare data block numbers; and after proceeding with step (a), recording the plurality of arranged data sets into a plurality of adjacent spare data block during a seeking process.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MUHAMMAD N. EDUN whose telephone number is 571-272-7617. The examiner can normally be reached on FLEXITIME.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


MUHAMMAD N EDUN
Primary Examiner
Art Unit 2627